


## COMPLETE LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

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Claim 1 (original) A material useful as a substrate for preparing articles, comprising:  
a compressed sheet of graphite having graphite intercalation compound included therein.

 Claim 2 (amended) A material of claim 1 wherein the ~~intercalant comprises a material~~ intercalation compounds are selected from the group consisting of halogens, mixed halogens, halides, oxidizing acids, alkali metals, transition metals and mixtures.

Claim 3 (original) A material of claim 1 which comprises at least 1% of one or more graphite intercalation compounds.

Claim 4 (original) A material of claim 1 which comprises from 3 to 20% by weight of a graphite intercalation compound.

Claim 5 (original) A material comprising at least one layer of a material of claim 1 and another layer of flexible graphite sheet.

Claim 6 (original) A material of claim 1 which has a density of from about 0.1 to about 1.5 grams/cm<sup>3</sup>.

Claim 7 (original) A material of claim 1 which has a thickness of from 0.075 to 1.4 mm.

Claim 8 (original) A material of claim 1 which has an electrical conductivity within the range of from 1.0 to  $7.6 \times 10^7 \Omega^{-1}\text{m}^{-1}$ .


Claim 9 (original) A material of claim 1 which has a thermal conductivity within the range of 5 to 2000 W/m K.

Claim 10 (amended) A material of claim 1 which has an electrical ~~conductivity~~resistivity of less than about 8  $\mu$  ohm-meter.

Claim 11 (original) A material of claim 1 wherein the sheet contains resin at a level of at least about 5% in the flexible graphite sheet.

Claim 12 (amended) A process for preparing a material useful as a substrate for preparing articles ~~such as an embossed or unembossed flexible graphite sheet~~ comprising:

intercalating a sheet of ~~flexible~~compressed particles of exfoliated graphite to an extent  
~~necessary~~ to form graphite intercalation compounds which increase the thermal  
and/or electrical conductivity of the graphite sheet; and compressing the sheet  
following intercalation.



Claim 13 (amended) A process of claim 12 wherein the ~~intercalant comprises a~~  
~~material~~intercalation compounds comprised are selected from the group consisting of  
halogens, mixed halogens, halides, oxidizing acids, alkali metals, transition metals  
and mixtures.

Claim 14 (original) A process of claim 12 wherein the sheet following intercalation  
comprises at least 1% of one of more graphite intercalation compounds.

Claim 15 (original) A process of claim 12 wherein the sheet following intercalation  
comprises from 3 to 20% by weight of a graphite intercalation compound.

Claim 16 (amended) A process of claim 12 wherein at least one layer of a ~~material of~~  
~~claim 1~~compressed sheet of graphite having graphite intercalation compounds  
included therein is compressed with another layer of flexible graphite sheet.

Claim 17 (amended) A process of claim 12 wherein the ~~final~~compressed sheet has a  
density of from about 0.1 to about 1.5 grams/cm<sup>3</sup>.

Claim 18 (amended) A process of claim 12 wherein the ~~final~~compressed sheet has a thickness of from 0.075 to 1.4 mm.

Claim 19 (amended) A material of claim 12 wherein the ~~final~~compressed sheet has an electrical conductivity within the range of from 1.0 to  $7.6 \times 10^7 \Omega^{-1} \text{ m}^{-1}$ .

Claim 20 (amended) A process of claim 12 wherein the ~~final~~compressed sheet has a thermal conductivity within the range of 5 to 2000 W/m K.

Claim 21 (original) A process of claim 12 wherein the sheet contains resin at a level of at least about 5% in the flexible graphite sheet.

Claim 22 (amended) A material of claim 12 wherein the ~~final~~compressed sheet has an electrical resistivity of less than about 8  $\mu$  ohm-meter.

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